

# Recombinant Human Plasminogen Activator, Urokinase

**Cat. No.** PLAU-1296H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant HumanLMW-uPA is produced in insect cell culture as the single-chain LMW form forPLAU and receptor binding studies.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	PLAU is involved indegradation of the extracellular matrix and possibly tumor cell migration andproliferation. This protein converts Plasminogen to Plasmin by specificcleavage of an Arg-Val bond in Plasminogen. Plasmin in turn cleaves thisprotein at a Lys-Ile bond to form a two-chain derivative in which a singledisulfide bond connects the amino-terminal A-chain to the catalyticallyactive, carboxy-terminal B-chain. This two-chain derivative is also calledHMW-uPA (high molecular weight uPA). HMW-uPA can be further processed intoLMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chainA (A1) and an amino- terminal fragment. LMW-uPA is proteolytically active butdoes not bind to the uPA receptor.
<b>Formulation</b>	Frozen liquid in0.05M Sodium Acetate pH 5.0+0.1M NaCl+1mM EDTA.
<b>Molecular Weight</b>	54.0 kDa
<b>Concentration</b>	2.5 mg/mL
<b>Volume</b>	0.04 mL

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<b>Storage</b>	Store at -70°C.
<b>OfficialSymbol</b>	PLAU
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PLAU plasminogen activator,urokinase [ Homo sapiens ]
<b>Synonyms</b>	PLAU; plasminogenactivator, urokinase; ATF; QPD; UPA; URK; u-PA; BDPLT5; urokinase-type plasminogen activator; OTTHUMP00000019849;OTTHUMP00000019850; OTTHUMP00000019851; U-plasminogen activator; plasminogenactivator, urinary
<b>Gene ID</b>	5328
<b>mRNA Refseq</b>	NM_002658
<b>Protein Refseq</b>	NP_002649
<b>MIM</b>	191840
<b>UniProt ID</b>	P00749
<b>Chromosome Location</b>	10q24
<b>Pathway</b>	ATF-2transcription factor network; Blood Clotting Cascade; Complement andCoagulation Cascades; Complement and coagulation cascades; DNA damageresponse (only ATM dependent); Dissolution of Fibrin Clot; E2F transcriptionfactor network; Endochondral Ossification; FGF signaling pathway; Hemostasis;Osteopontin Signaling; Osteopontin-mediated events; Validated

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transcriptional targets of AP1 family members Fra1 and Fra2; Wnt Signaling Pathway;  
amb2Integrin signaling

**Function**

peptidase activity; protein binding; serine-type endopeptidase activity

**PDB rendering based  
on 1c5w.**

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